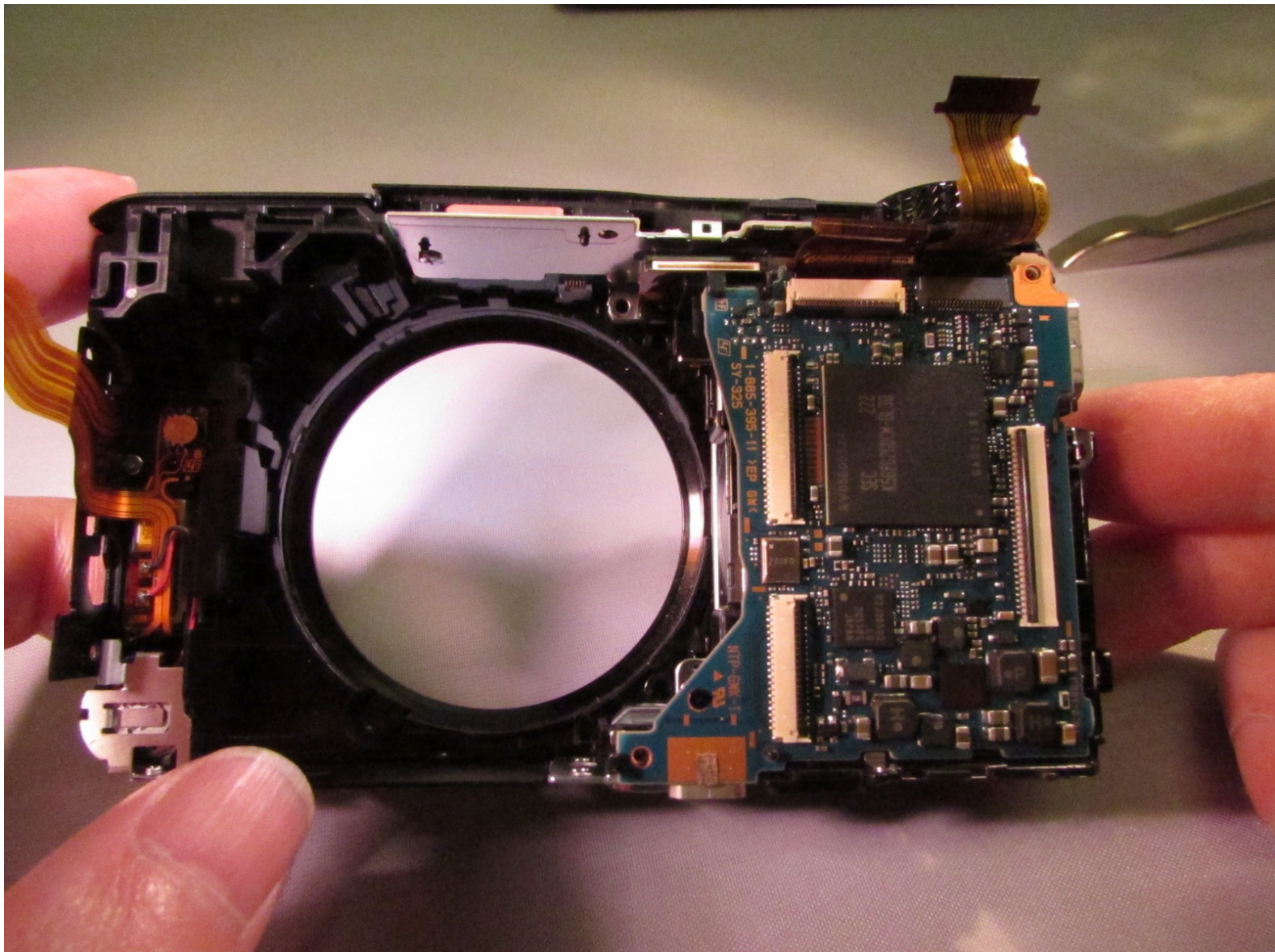




# Sony Cyber-shot DSC-HX20V Motherboard Replacement

Replace the main circuit board.

Written By: Bryson O'Neill



## INTRODUCTION

Replacing the motherboard may seem like a daunting task but can be done using prying tools.

---



### TOOLS:

- [Phillips #00 Screwdriver](#) (1)
  - [iFixit Opening Tools](#) (1)
-

## Step 1 — LCD



- Orient the device so the bottom is facing up, and the lens is facing you ("bottom view").
- ❗ For further reference, consult the service manual. [Link to service manual.](#)

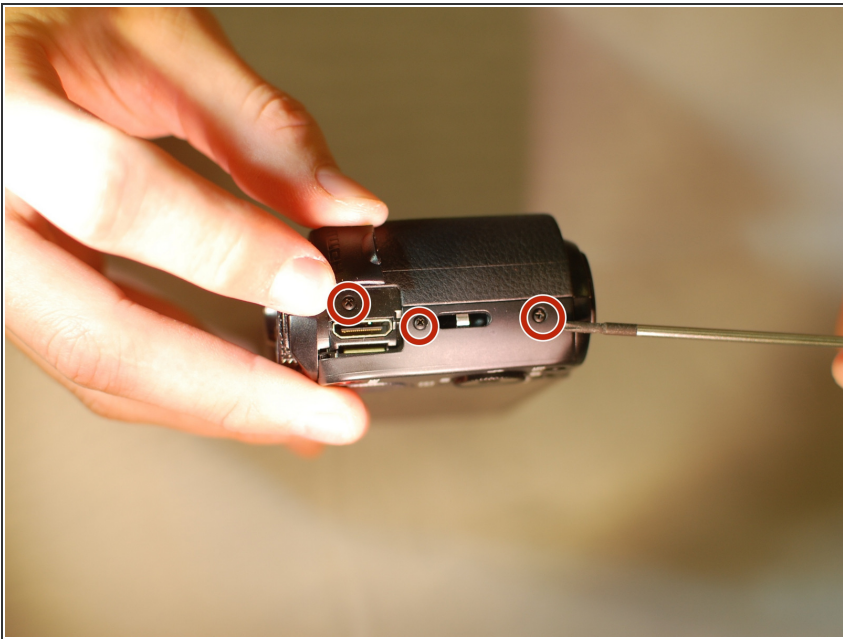
## Step 2



- Remove these two black M1.4 X 3.5 Phillips head screws.
- The third, unmarked screw does not need to be removed at this time.



## Step 3



- Orient the device so the LCD is facing you, and the hdmi cover is facing up ("left view").
- Remove these three black M1.4 X 3.5 Phillips head screws.
- ❗ You must lift the hdmi cover to expose one of the screws.

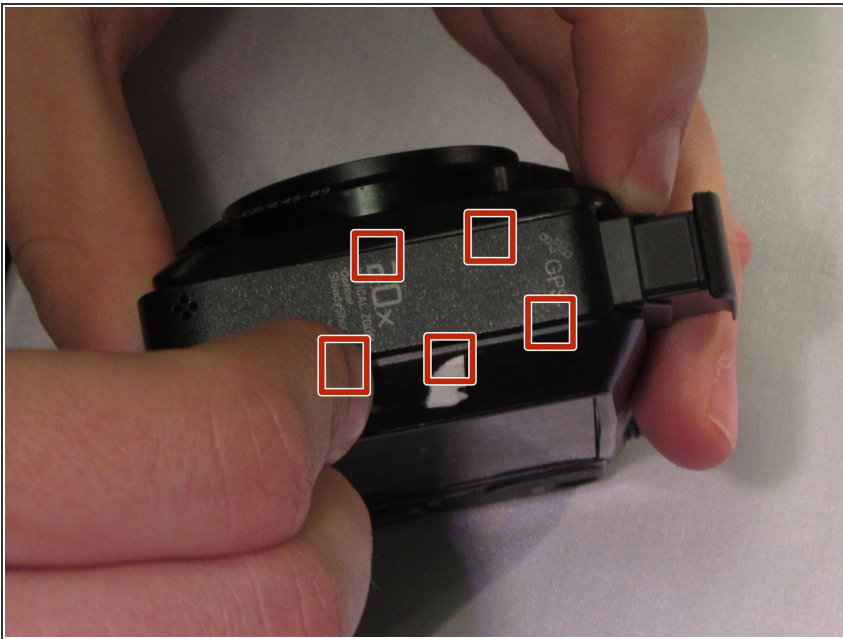
## Step 4



- Orient the device with the Wifi/GPS logo facing up ("right view").

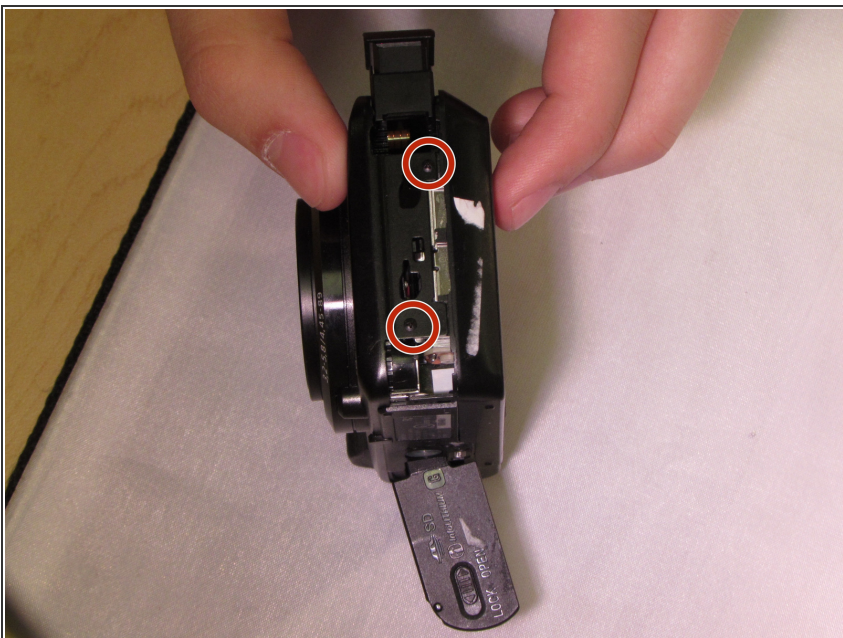


## Step 5



- Use a prying motion and a plastic opening tool to pry the panel up.
- ⓘ Areas under the squares are approximate locations of retaining claws.

## Step 6



- After removing the panel, remove the two black M1.4 X 3.5 Phillips head screws.

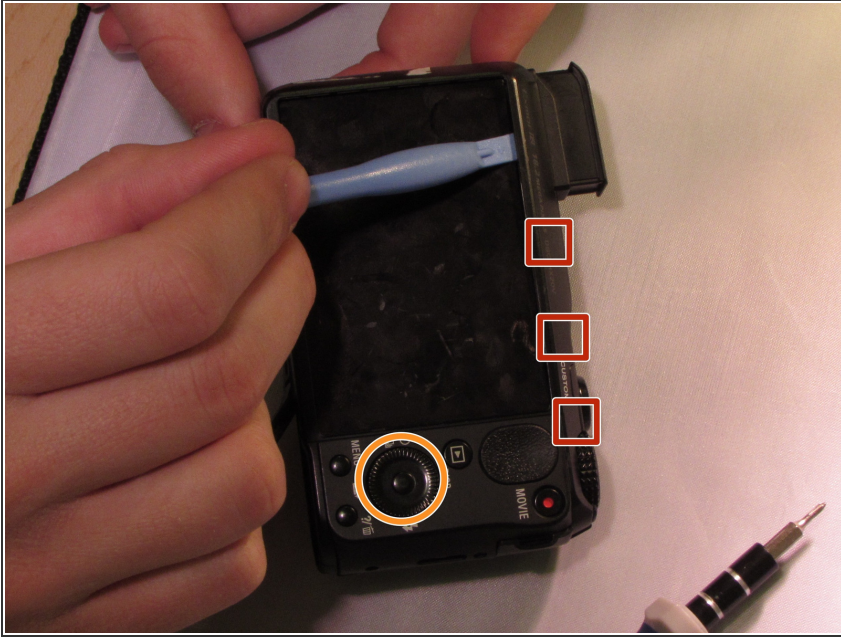
## Step 7



- Orient the device so that the LCD is facing you ("back view").



## Step 8



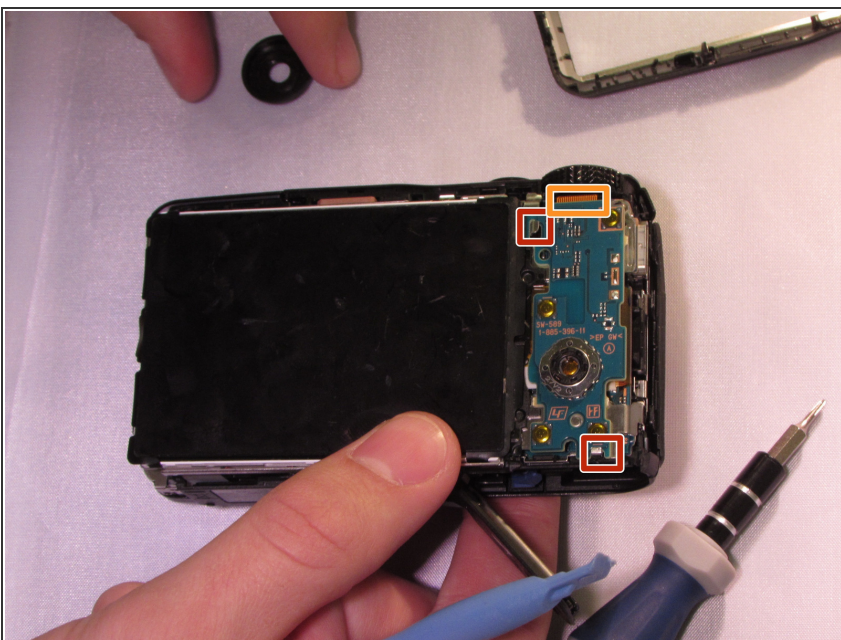
- Use the plastic opening tool with a prying motion, going between the case and the LCD, from the middle of the LCD to the right of the device, undoing the claws retaining the back.

✦ When replacing the back cover of the device, ensure the flash module is **UP**.

ⓘ The back cover should come off easily but you might hear light snapping or popping.

✦ The rotary wheel and button are not secured. They will come loose when the back cover is removed. Set them aside for reassembly

## Step 9

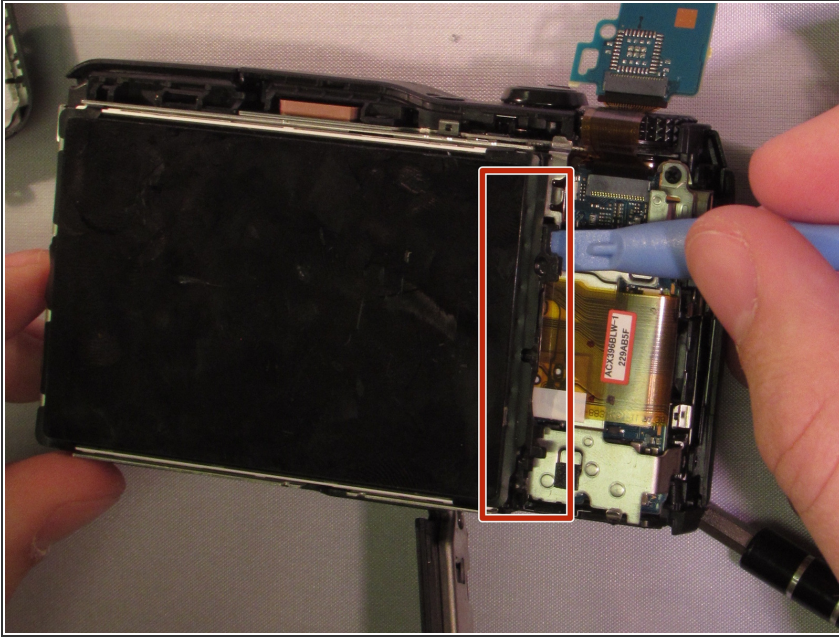


- Unhook the small printed circuit board by gently pressing the board towards the top of the device and lifting up.

ⓘ Note a ribbon cable should be attached at the top. This does not need to be disconnected yet.

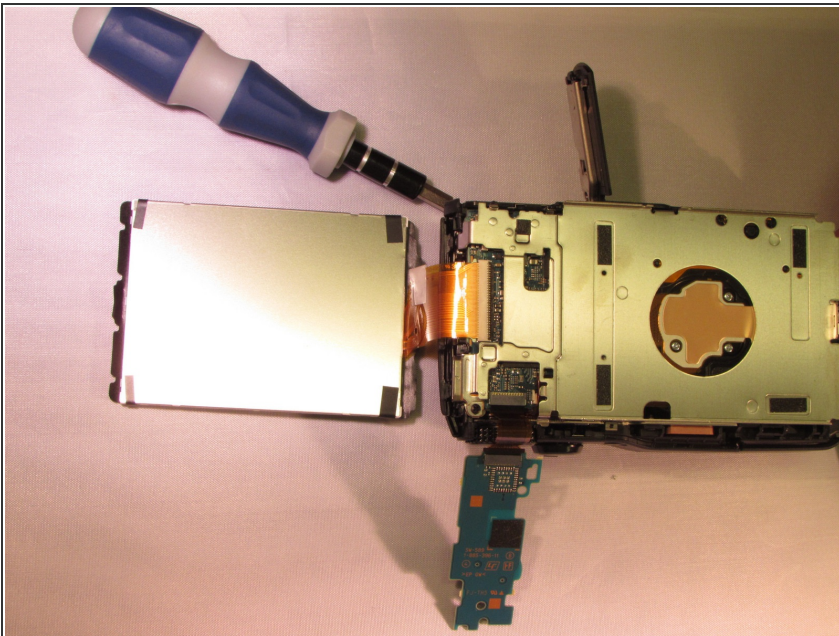


## Step 10



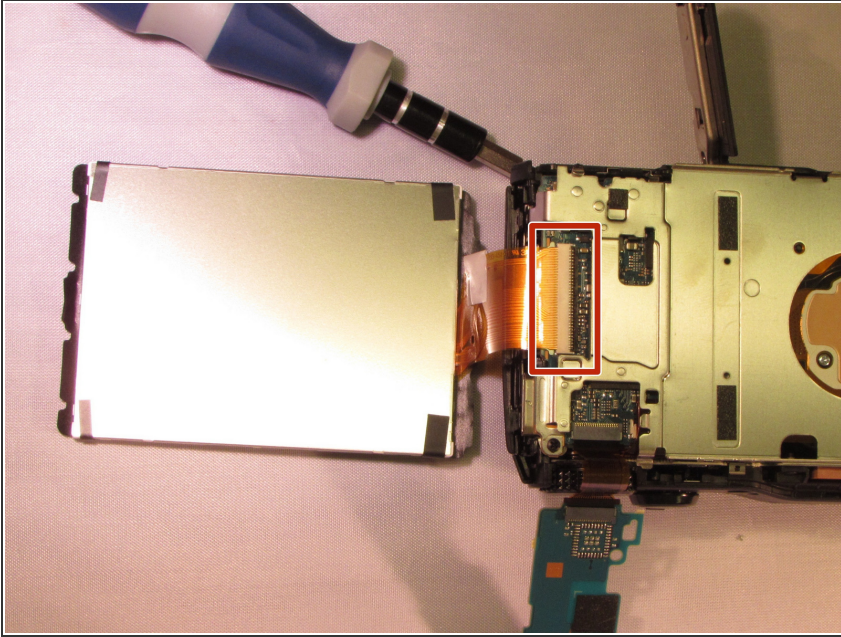
- Using a plastic opening tool remove the black LCD retainer clip to the right of LCD.
- ☑ Note the orientation of the black LCD retaining clip and how it comes out of the camera.
- ☑ If in doubt, consult the service manual. (Pages 25-27) [Click to continue to the service manual.](#) This has a reference number of 3 in the linked diagram.

## Step 11



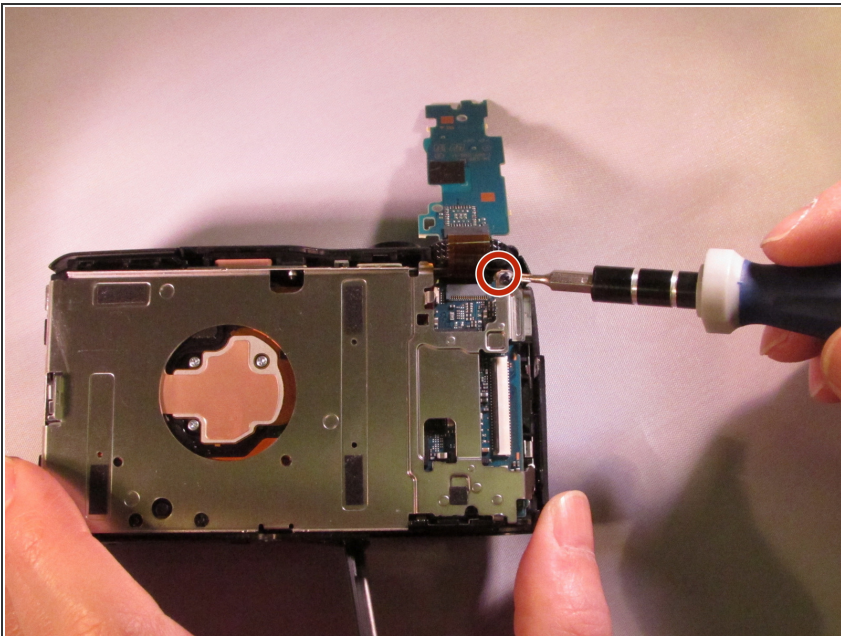
- Use the plastic opening tool to gently lift the LCD from the device
- ⓘ The LCD should be attached to a ribbon cable

## Step 12



- Using the plastic opening tool to lift the black retaining clip up to disengage the ribbon cable. Then gently pull the ribbon cable to remove.
- ⓘ Be careful to not damage the cable.

## Step 13 — Motherboard



- Remove the black M1.4 X 3.5 Phillips head screw in upper right corner of device.
- ⓘ If you have already removed the lens block, or aluminum back plate, you can skim over the next couple of steps until you are at a familiar place.

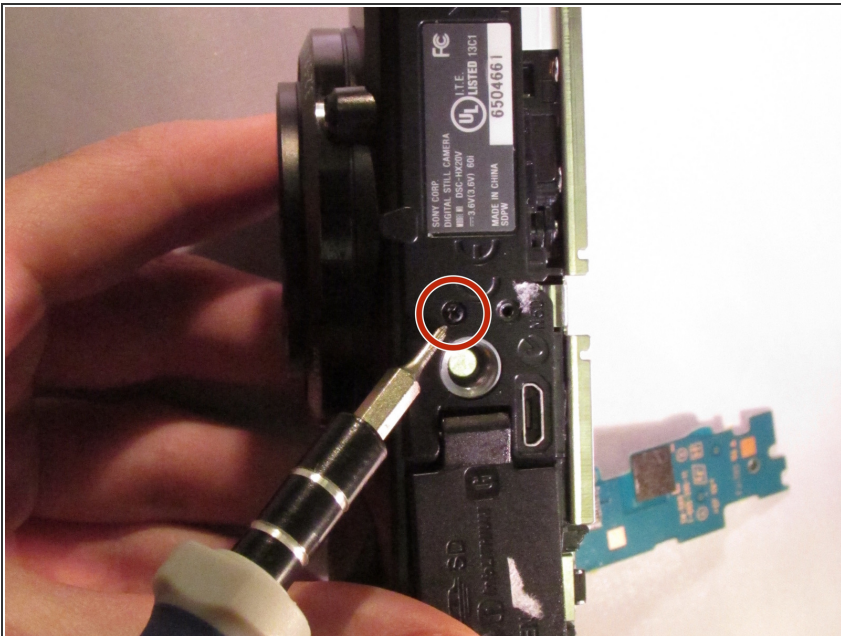


## Step 14



- Reorient the camera so you are looking at the "top view".
- Remove the black M1.4 X 3.5 Phillips head screw just below the ON/OFF button circled in red.

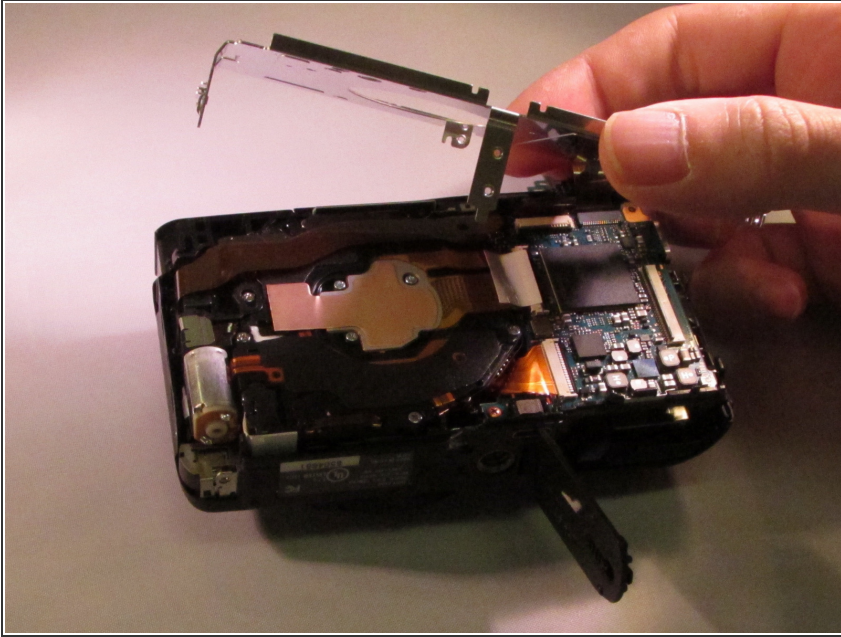
## Step 15



- Orient the device so you are looking at the "bottom view".
- Remove the black M1.4 X 3.5 Phillips head screw located next to the tripod attachment.

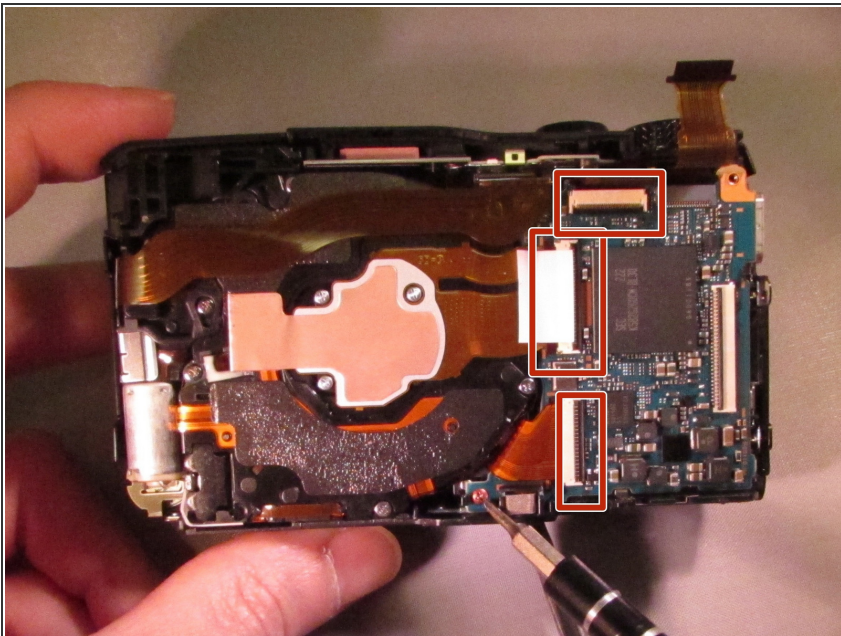


## Step 16



- Lift the aluminium back plate.

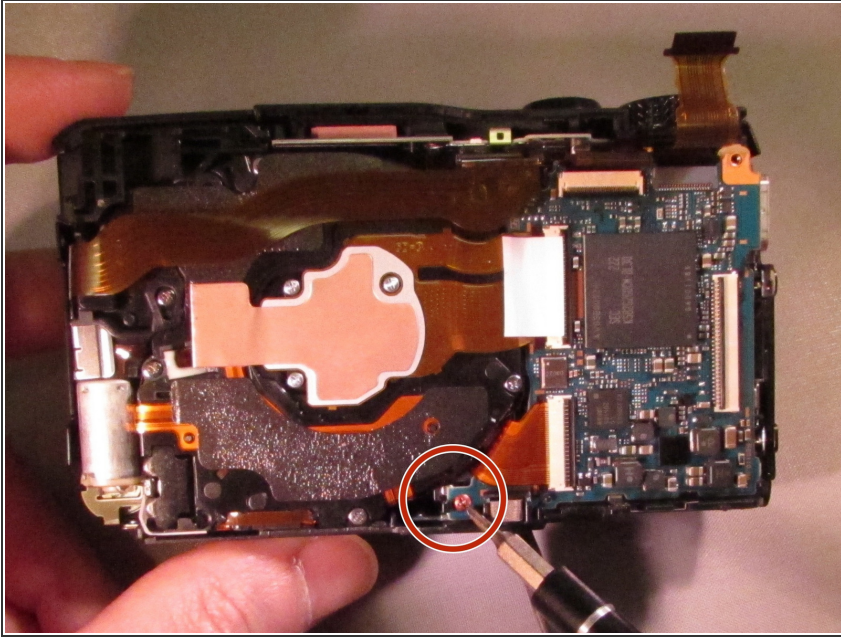
## Step 17



- The connections (red squares) have small black retaining clips. Using a plastic opening tool, lift upward towards the cable to unlock.
- After detaching retaining clips, gently lift to disconnect the ribbon cables.

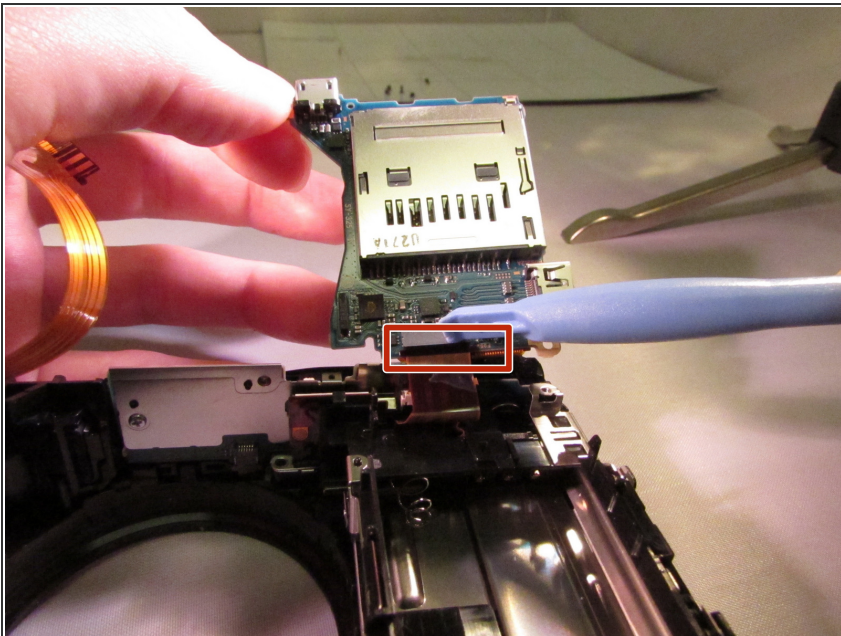
⚠ Don't rip the cables.

## Step 18



- Remove the orange M1.4 X 3.5 Phillips head screw located near the bottom of the camera.
- ⓘ This is the only screw that is orange.

## Step 19



- Lift up the motherboard.
- ⓘ In this picture the lens block is removed, but it is not a necessity.
- Disconnect the ribbon cable on the bottom by gently pulling.

To reassemble your device, follow these instructions in reverse order.

This document was last generated on 2017-07-16 07:27:14 AM.